

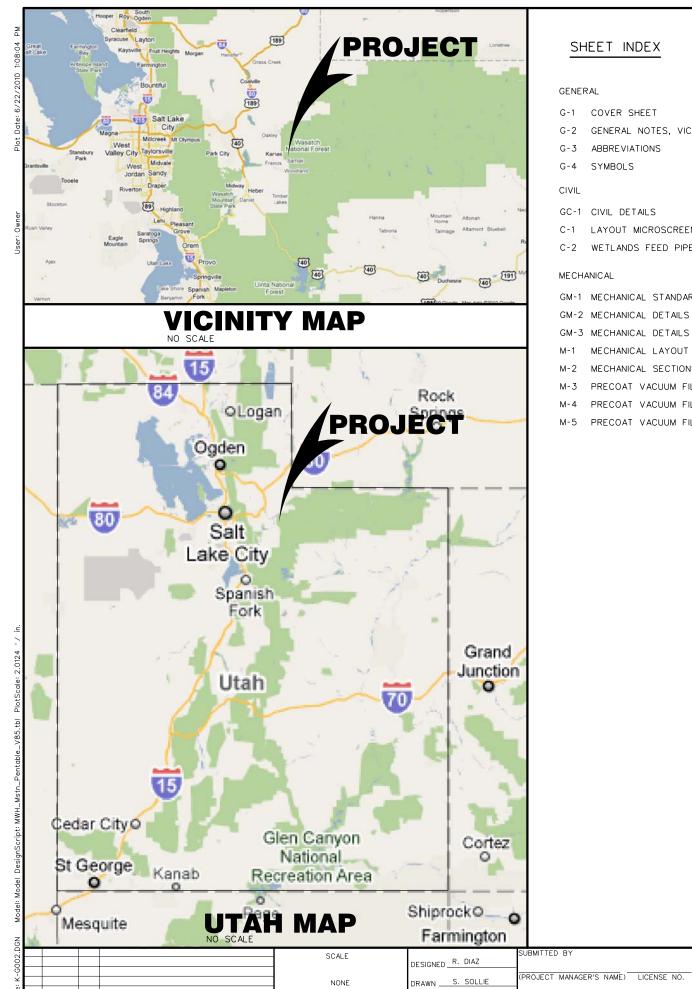
Utah Division of Wildlife Resources

Kamas Fish Hatchery Solids Disposal Project

PRELIMINARY
NOT FOR CONSTRUCTION

Preliminary Design June 22, 2010





REV DATE BY

DESCRIPTION

CHECKED N. ZAUGG

SHEET INDEX

GENERAL

- G-1 COVER SHEET
- G-2 GENERAL NOTES, VICINITY MAP, LEGEND SHEET INDEX
- ABBRE VIATIONS
- G-4 SYMBOLS

CIVIL

- GC-1 CIVIL DETAILS
- C-1 LAYOUT MICROSCREEN BUILDING AREA
- C-2 WETLANDS FEED PIPE

MECHANICAL

- GM-1 MECHANICAL STANDARD DETAILS
- GM-2 MECHANICAL DETAILS
- GM-3 MECHANICAL DETAILS
- M-1 MECHANICAL LAYOUT MICROSCREEN BUILDING
- M-2 MECHANICAL SECTIONS

COMPANY OFFICER'S NAME) LICENSE NO.

- M-3 PRECOAT VACUUM FILTER LAYOUT
- M-4 PRECOAT VACUUM FILTER SECTION
- M-5 PRECOAT VACUUM FILTER SECTION

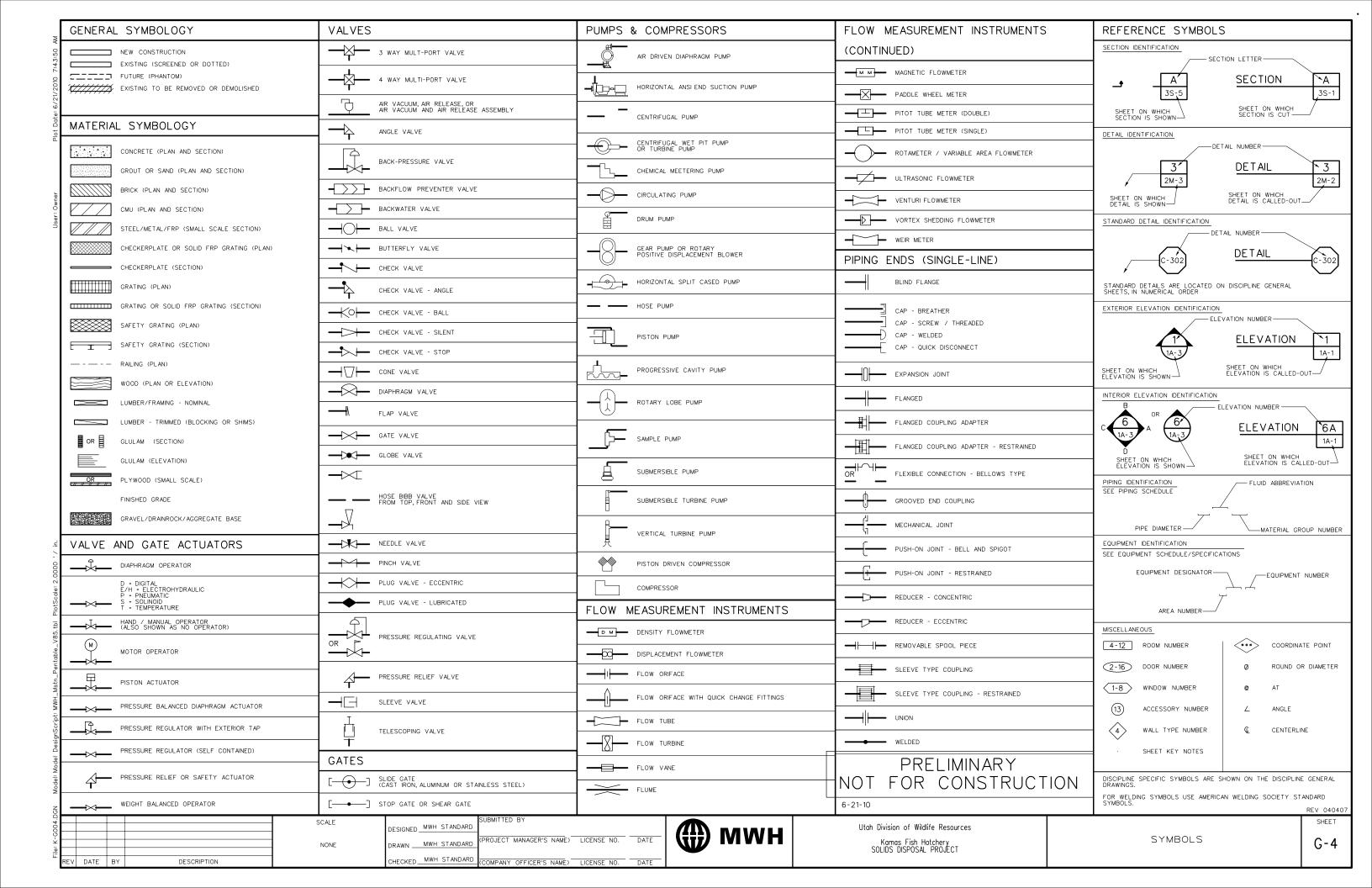
GENERAL NOTES:

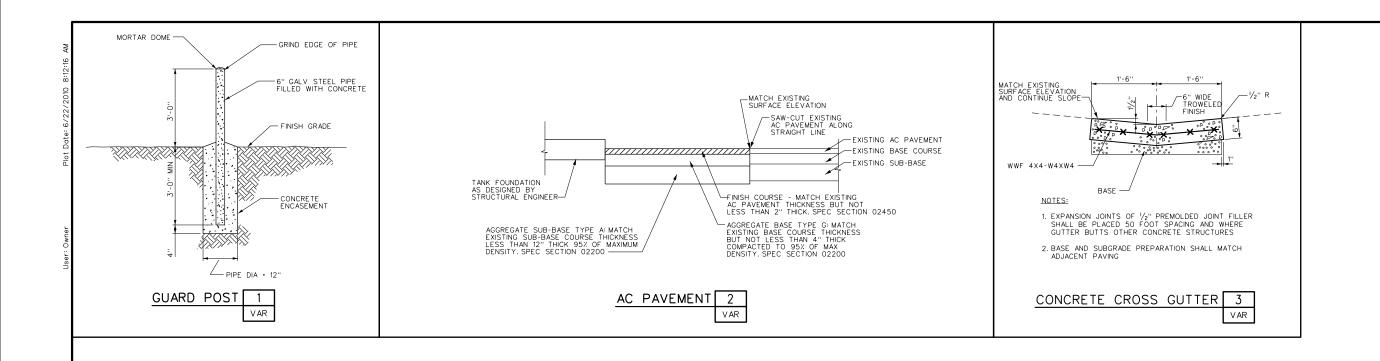
- CONTRACTOR SHALL REMOVE, PRESSURE WASH AND RELOCATE
 THE EXISTING MICROSCREEN TO AN ONSITE LOCATION SPECIFIED BY
 THE OWNER. ALL THE PIPING CONNECTED TO THE MICROSCREEN SHALL
 BE MODIFIED AND RELOCATED AS NEEDED TO CONNECT NEW VACUUM
- THE 4-INCH DRAIN LINE FROM THE MICROSCREEN TO THE SOLIDS VAULT SHALL BE BLIND FLANGED.
- EXISTING SUPPORT BRACKETS FOR THE MICROSCREEN SHALL BE CUT AND DISPOSED.
- EXHAUST FAN (EF-9) LOCATED ON THE WEST SIDE OF THE BUILDING SHALL BE RELOCATED TO THE NORTHWEST SIDE OF THE BUILDING. CONTRACTOR SHALL COORDINATE ALL POWER, WIRING, STRUCTURAL AND MASONRY REQUIREMENTS TO PROVIDE A FUNCTIONAL EXHAUST
- CONTRACTOR SHALL SALVAGE EXISTING CONCRETE BLOCK AS NEEDED AFTER OPENING THE AREA FOR THE DOUBLE-SWING DOOR. BLOCK SHALL BE USED TO COVER AREA OCCUPIED BY THE OLD LOCATION OF THE EXHAUST FAN. CONTRACTOR SHALL DISPOSE OF LEFT OVER DEBRIS.
- CONTRACTOR SHALL RELOCATE THE POLYMER TANK AND IT'S BASE TO AN ONSITE LOCATION INDICATED BY THE OWNER.
- CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS FROM DEMOLITION OFF-SITE AT THE CONTRACTOR'S EXPENSE.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN
- CONTRACTOR SHALL POTHOLE EXISTING PIPES TO DETERMINE EXACT PIPE INVERT, SIZE, LOCATION, AND MATERIAL TO DETERMINE IF THERE ARE CONFLICTS PRIOR TO PURCHASE OF MATERIAL.

PRELIMINARY NOT FOR CONSTRUCTION

6-22-10

A APPERENCE AND	UVYL AAFT GUYL A	CULVERT CHECK VALVE CUBIG YARD PENNY DOUBLE ACTING DOOR DISSOLVED AIR FLOTATION THICKENER DIFFORM THICKENER DISCOLVED AIR FLOTATION DIAMETER DIAGONAL DIAGONAL DIAMETER DIAGONAL DIAG	VC AAAAAN NA G G G AAAAAN NA G G G G G G G G G G G G G G G G G G G		MATAX CRASH MEMORY ON MEMORY OF CRASH MEMORY O	MANHOLE / M MEAN HIGH T MEAN HIGH T MEAN HIGH T MEAN HIGH T MALEABLE IF 1/1,000,000 MILITARY / 1 MINIMUM / MI MISCELL ANE O MILITARY / 1 MINIMUM / MI MISCELL ANE O MARK MEAN LOW M MILLIMETER MONUMENT MOP SINK MEAN SI	ROL CENTER JEB RETURN IRR JOHN STEAM STEA	PPPP GOOD REFERENCE SONOSSICOLONDO SESSES SONOS SONOSSICOLONDO SON	STORM DRAIN SECONDARY / SECTION SERIES SETTING SOUARE FOOT SHOWER SHELVING SHELVING SHELVING SHELVING SHELT SHEATHING SIMILAR SILLDGE SLIDING SLUICE GATE SLUDING SLUICE GATE SLUDION STATIC PRESSURE SPECIFICATION SPIKE SOUATE STAINLESS STEEL / SAI SINK SELECT SUB-BASE STANDARD SPECIFICATION SECONDS SAYBOLT UNIN STREET / STATE STATION SLEEVE-TYPE COUPLING STANDARD STANDARD STAKE STEAM LINE STEAM LINE STEAM LINE SUCTION SOLENOID VALVE SIDEWALK STEAM SWITCHOEAR STAME STEAM SWITCHOEAR STEM SWITCHOEAR STEM SWITCHOEAR SW	NOTE OF SLOPE NORETE NORETE NORETE NOMENT PIPE ROUND REFRIGERATOR ED ATION / ROUGH FACE CAL ENGINEER D ONDARY CLARIFIER RETE PIPE PER MINUTE T / SMOKE DETECTOR TIC PIPE DIMENSION RATIO NITARY SEWER / SERVICE N FOR PUBLIC WORKS VERSAL TOF STAIR / TANGENT / RK VALVE	FOR AD CIVIL - PIPING ELECTRI INSTRUM OTHER STANDA	TOP OF STEEL TOP OF STEEL TOP OF WALL TOP OF WALL TRACTIC SIGNAL TRAFFIC SIGNAL TOP SET BASE TRAFFIC SIGNAL CONDUIT THERMOSTATIC VALVE / TELEVISION UNDER-CROSSING UNDER-CROSSING UNDER-CROSSING UNDER-CROSSING UNDER-CROSSING UNDER-CROSSING UNDERS NOTED OTHERWISE UNICESS OTHERWISE INDICATED UNITES NOTED OTHERWISE UNICESS OTHERWISE INDICATED UNINTERRUPTABLE POWER SUPPLY URINAL UNDERGROUND SERVICE ALERT UNITED STATES GEOLOGICAL SURVE ULTRAVIOLET UTILITY WATER VALVE / VERTICAL / VENT / VOL' VACUUM VARIES / VARIABLE VALVE / VERTICAL / VENT / VOL' VACUUM VARIES / VARIABLE VALVE / VERTICAL / VENT / VOL' VACUUM VARIES / VARIABLE VERTICAL COURVE VITIFIED CLAY PIPE VERTICAL VOLUME VERTICAL COURTE VERTICAL COURTE VENT / WASTE / WIDTH / WIDE FI WITH / WITH MANUFACTURE WEST OF WITHOUT WATER COLUMN / WATER CLOSET WALL CLEANOUT WOOD WINDOW WATER HEATER WATER, OIL, OR GAS WATERFROOFING / WORKING PRESS POINT WATER SURR ACE WATERSTOP WATER HEATER WATER, OIL, OR GAS WATERFROOFING / WORKING PRESS POINT WEAKEN PLANE JOINT WATER SURR ACE WATERSTOP WATER FABRIC WATER SURR ACE WATERSTOP WATER FABRIC WATER SURR ACE WATERSTOP WATER WORKING PRESSURE CROSS CONNECTION EXTRA STRONG CROSS SECTION DOUBLE EXTRA STRONG YARD YEAR ZERO / ZONE ZINC DITIONAL ABBREVIATIONS Z32.2.3 DITIONAL ABBREVIATIONS Z32.2.3 DITIONAL ABBREVIATIONS Z32.2.3	NAY EY T / VOLUME LANGE / WATE SURE / WORK
REV DATE BY DESCRIPTION		NONE DRAWN MWH STANDARD (PR		AGGER'S NAME) LICENSE NO. DATE) M	WH	Kamas Fish Hatchery SOLIDS DISPOSAL PROJECT				ABBRE	BBREVIATIONS	





PRELIMINARY NOT FOR CONSTRUCTION

6-22-10

SCALE DESIGNED R. DIAZ PROJECT MANAGER'S NAME) LICENSE NO. DRAWN S. SOLLIE NONE CHECKED N. ZAUGG DESCRIPTION COMPANY OFFICER'S NAME) LICENSE NO. DATE

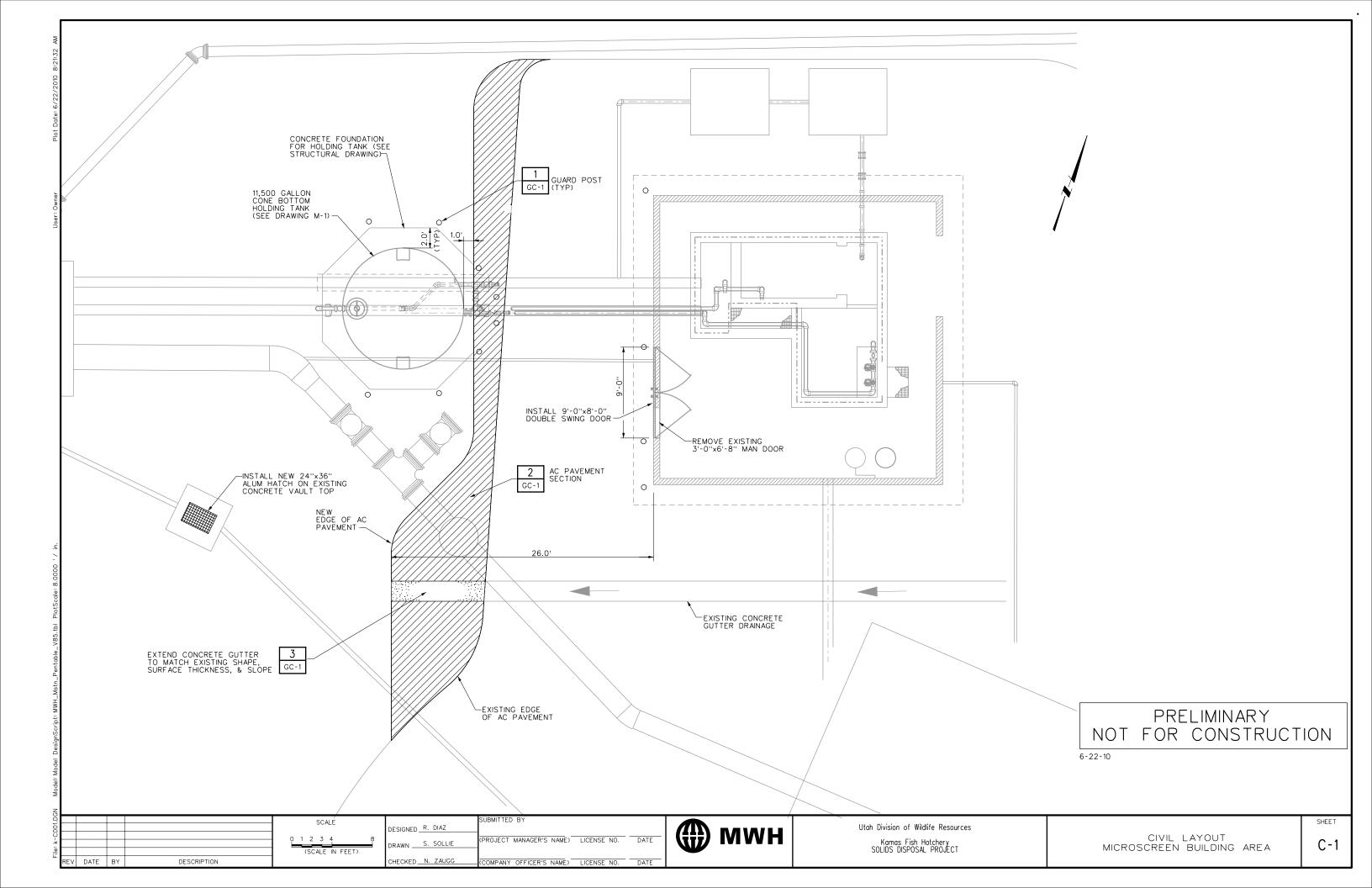


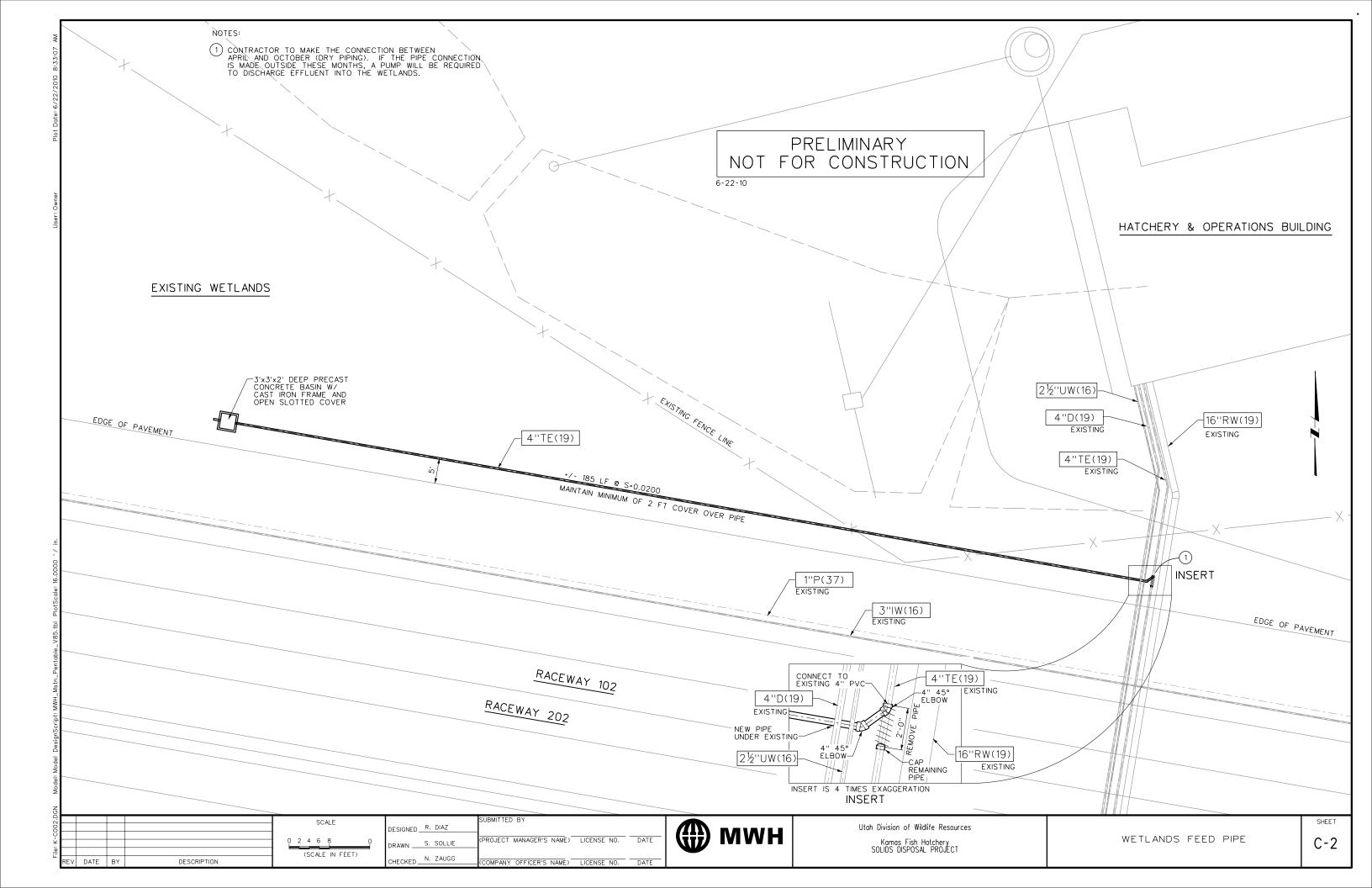
Utah Division of Wildlife Resources Kamas Fish Hatchery SOLIDS DISPOSAL PROJECT

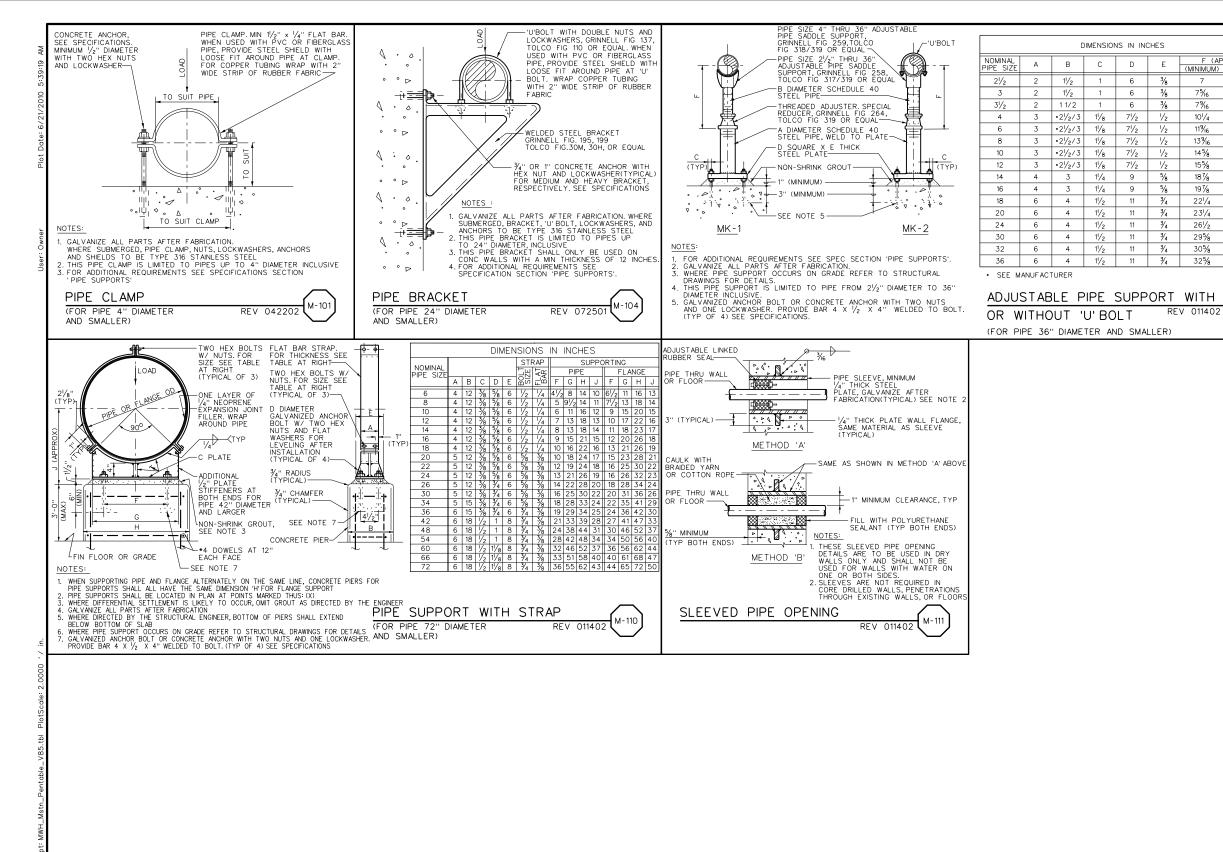
CIVIL DETAILS

GC-1

SHEET







PRELIMINARY NOT FOR CONSTRUCTION

6-21-10

DIMENSIONS IN INCHES

D

1 6 3/8

6

71/2

71/2

9

9

71/2 1/2

Ε

3/8

1/2

1/2

5∕8

5/8

(MINIMUM) (MAXIMUM

75/16

7%₆

101/4

11%6

13%

14 5/8

15%

18 1/8

19 1/8

231/4

261/2

295/8

30%

111/2

11¹³/₁₆

121/16

14 3/4

161/₁₆

181/16

191/8

201/8

23%

24 1/8

26¾

273/4

341/8

351/8

371/8

M-108

С

11/8

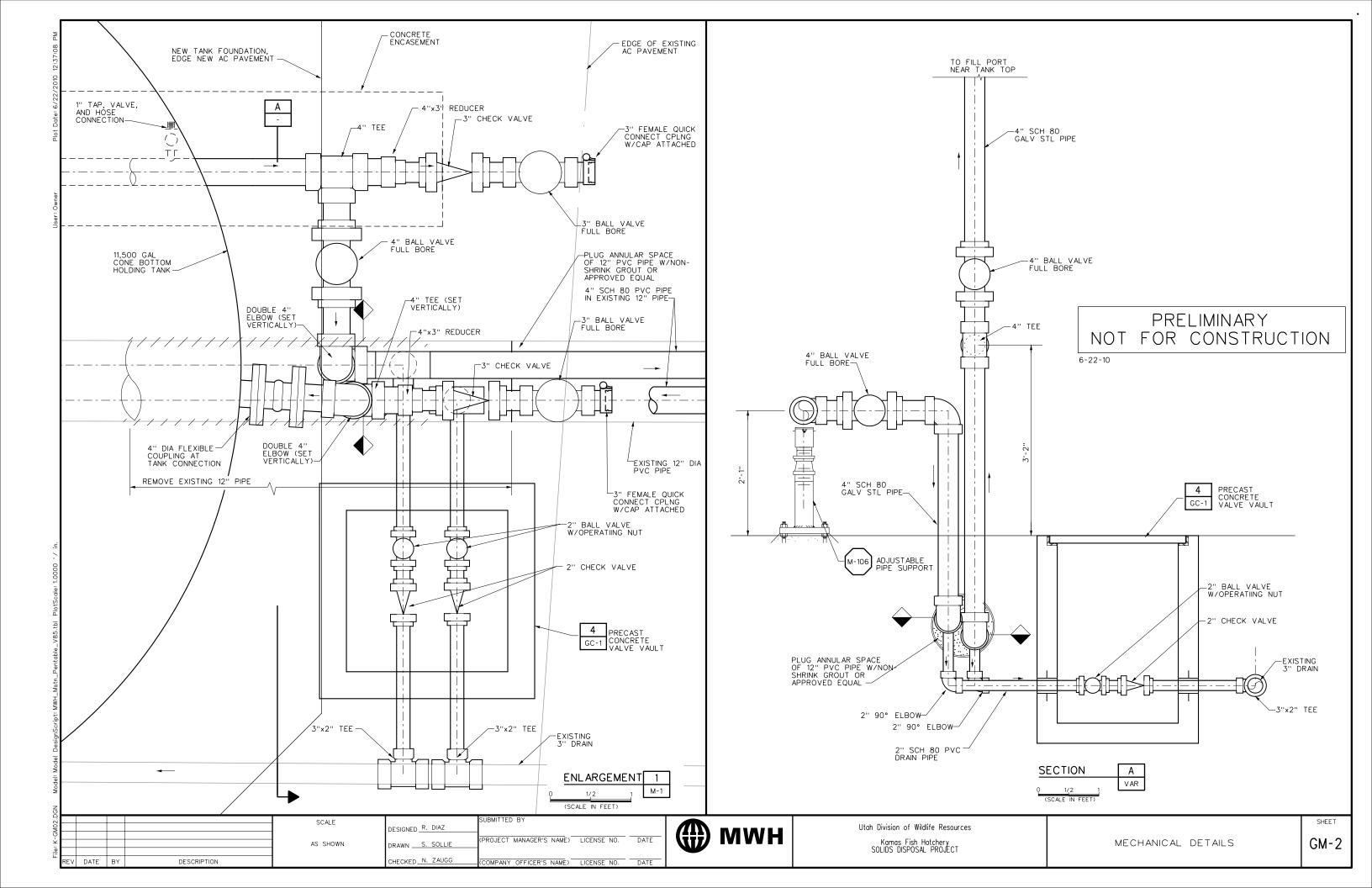
11/4

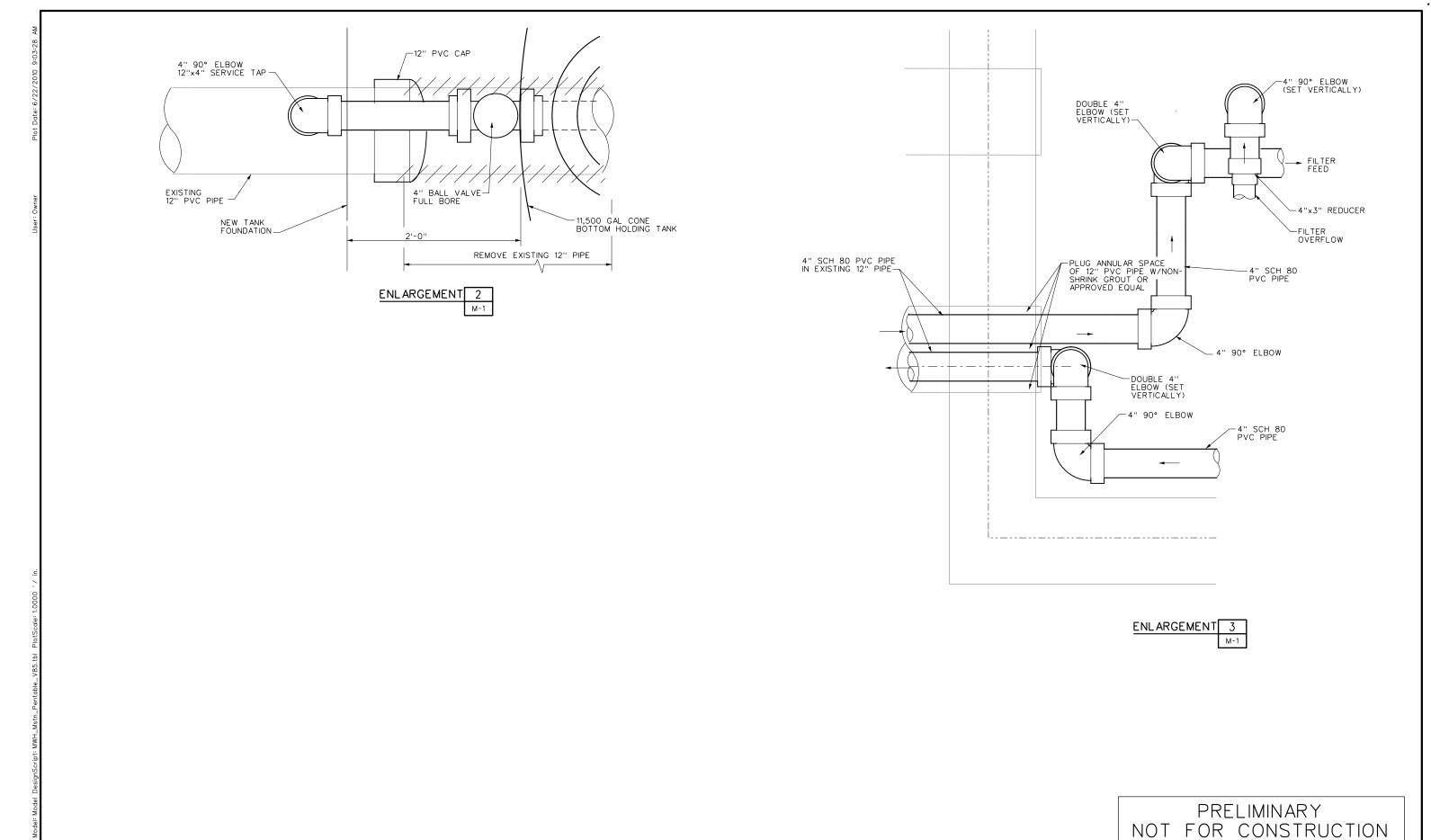
11/4

В

11/2

SCALE SHEET Utah Division of Wildlife Resources ESIGNED MWH STANDARD MECHANICAL PROJECT MANAGER'S NAME) LICENSE NO. Kamas Fish Hatchery SOLIDS DISPOSAL PROJECT STANDARD DETAILS GM-1 NONE DRAWN __MWH_STANDARD CHECKED N. ZAUGG DESCRIPTION OMPANY OFFICER'S NAME) LICENSE NO.





Tile: K-GM03.DGN

PROJECT MANAGER'S NAME) LICENSE NO.

COMPANY OFFICER'S NAME) LICENSE NO. DATE

DATE

SCALE

AS SHOWN

DESCRIPTION

DESIGNED R. DIAZ

DRAWN S. SOLLIE
CHECKED N. ZAUGG

) MWH

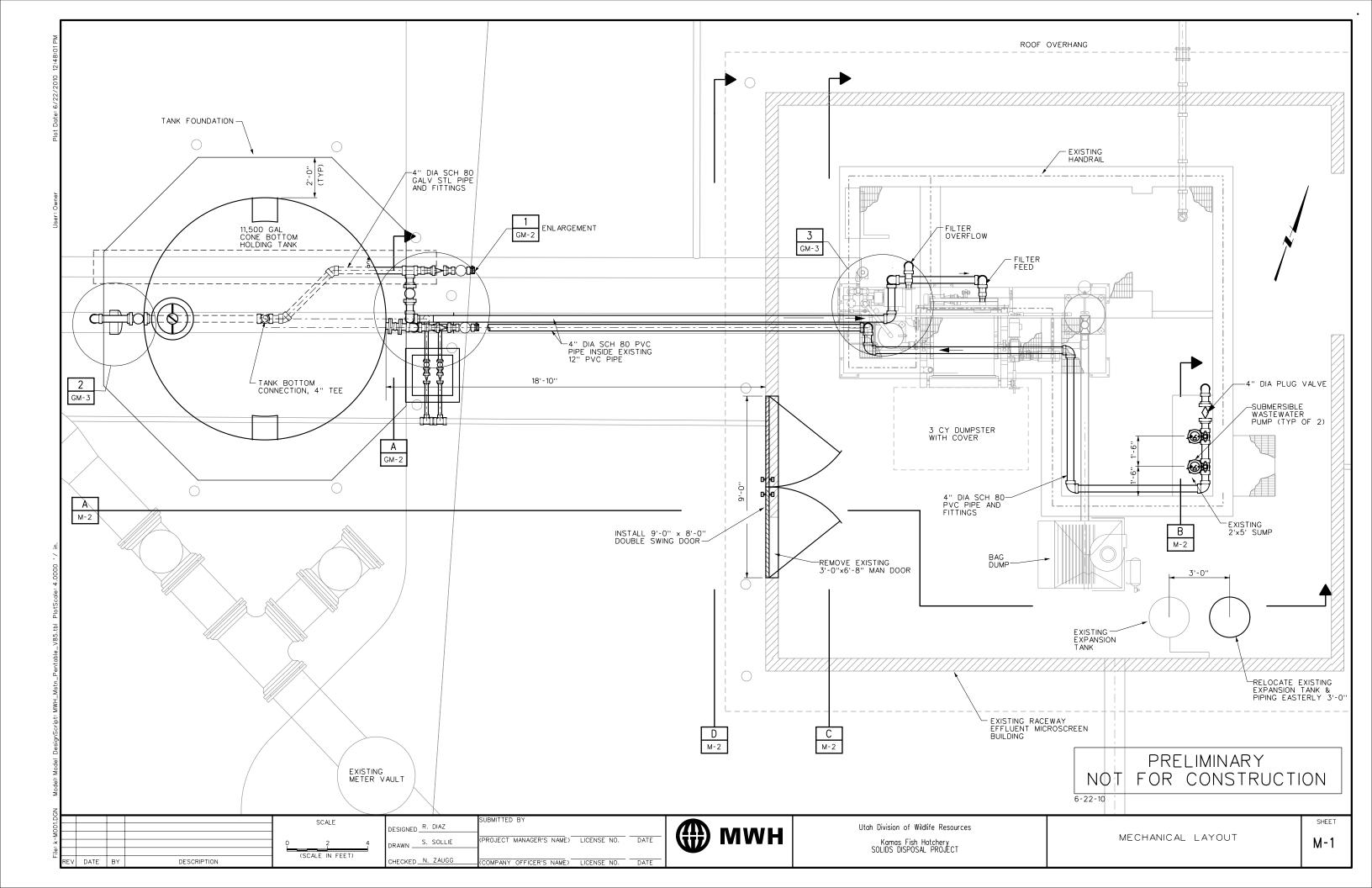
Utah Division of Wildlife Resources Kamas Fish Hatchery SOLIDS DISPOSAL PROJECT

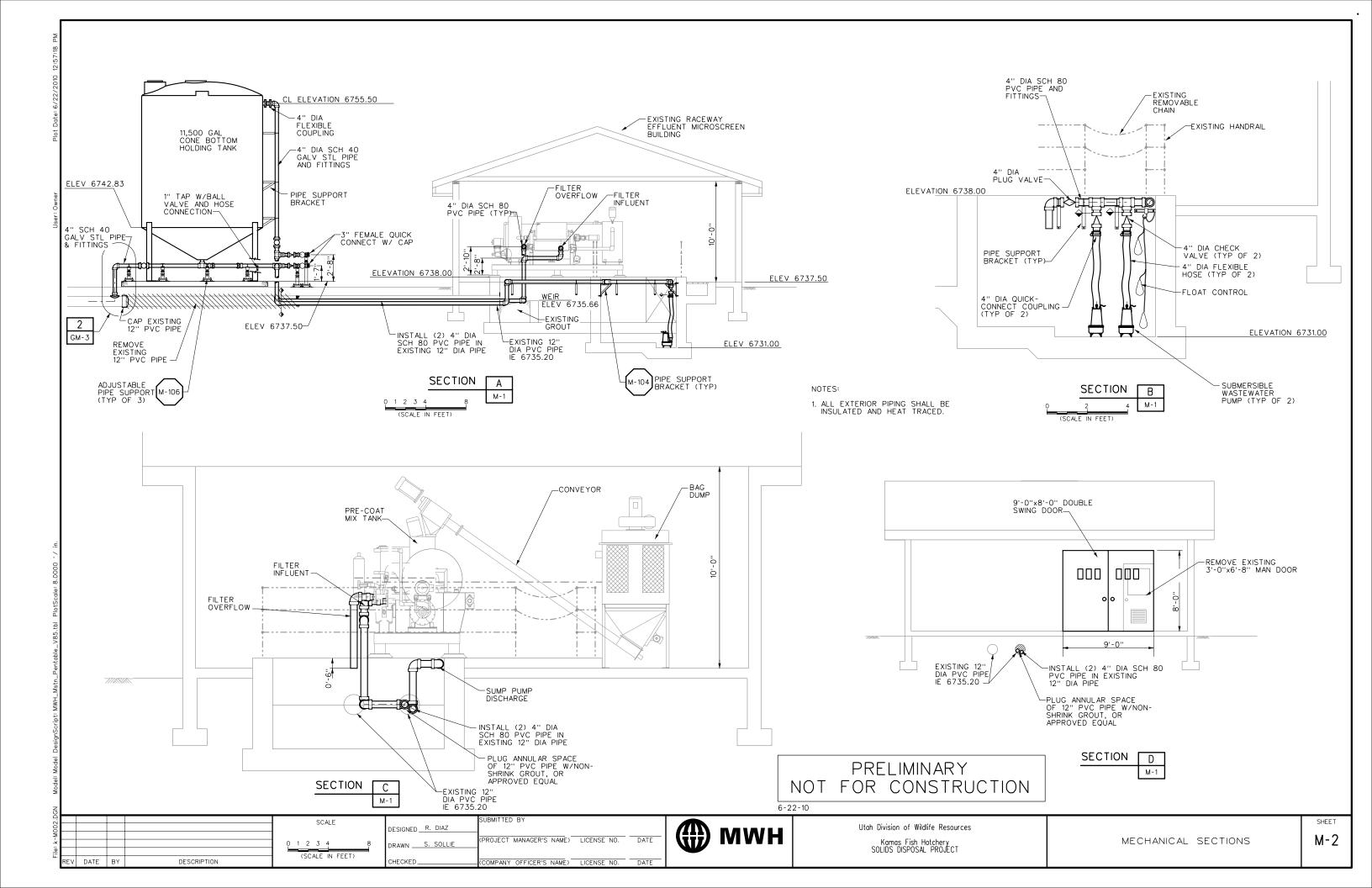
MECHANICAL DETAILS

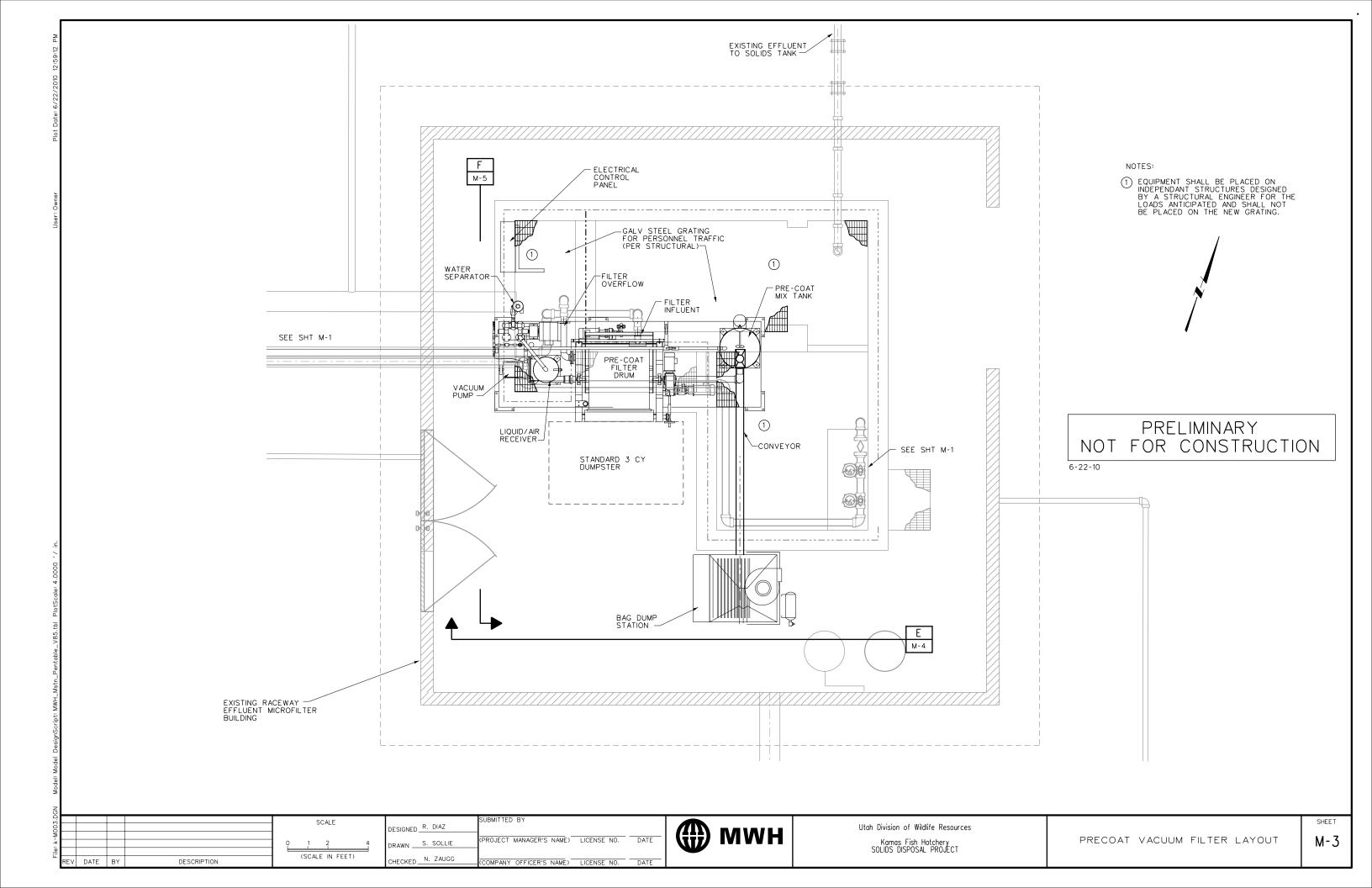
6-22-10

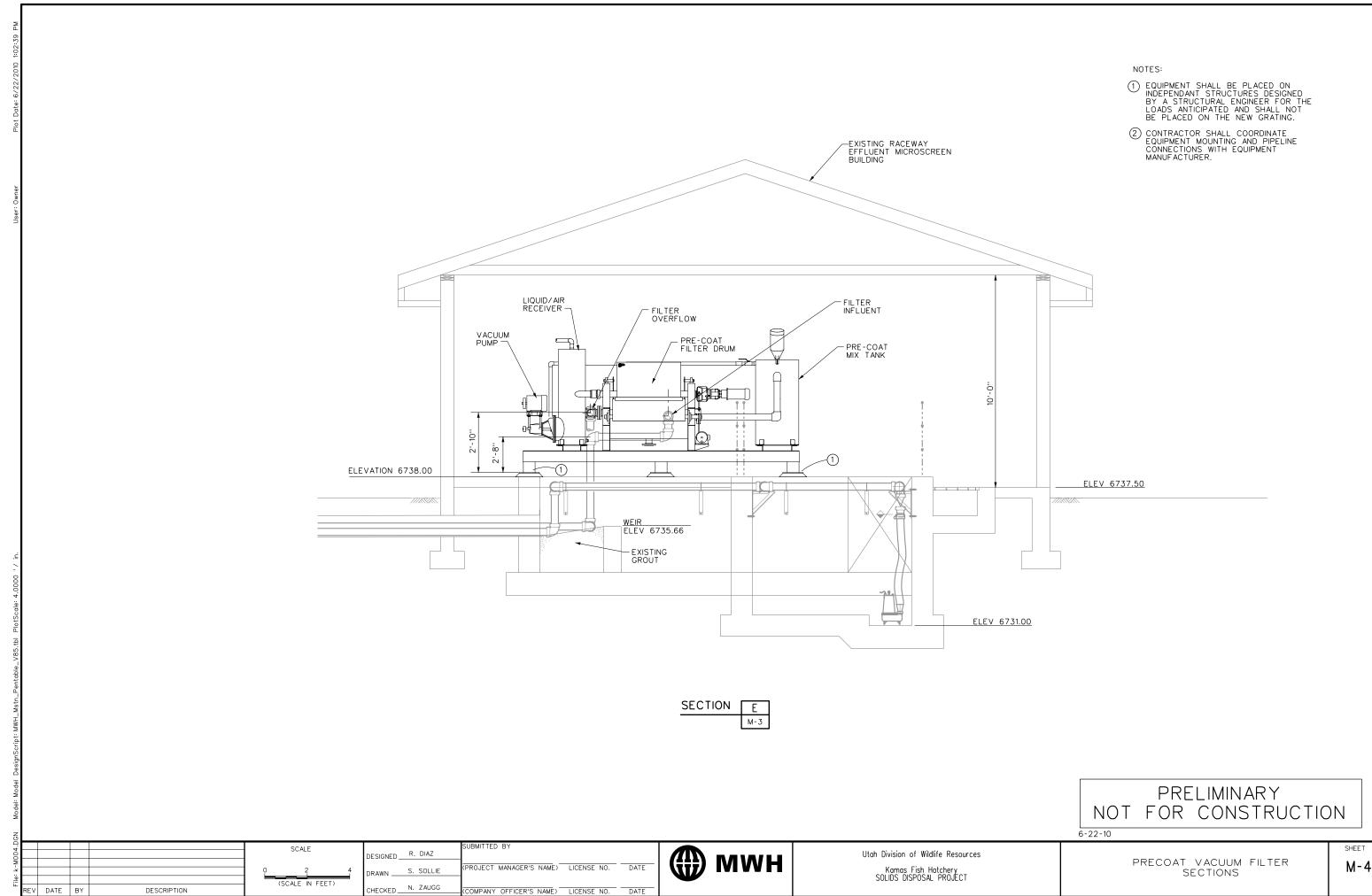
GM-3

SHEET









M-4

SCALE DESCRIPTION

DESIGNED R. DIAZ PROJECT MANAGER'S NAME) LICENSE NO. S. SOLLIE DRAWN _ (SCALE IN FEET) CHECKED N. ZAUGG





Utah Division of Wildlife Resources Kamas Fish Hatchery SOLIDS DISPOSAL PROJECT

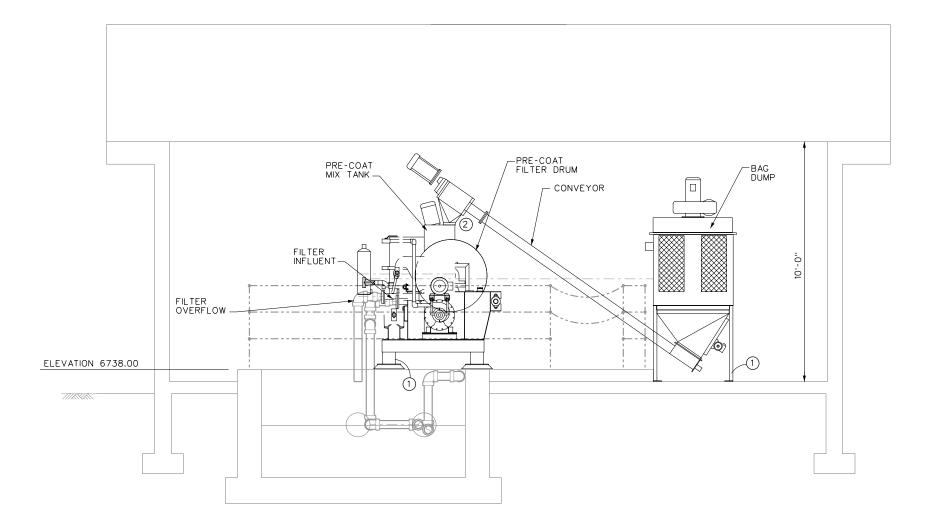
PRECOAT VACUUM FILTER SECTIONS

M-5

SHEET

NOTES:

- (1) EQUIPMENT SHALL BE PLACED ON INDEPENDANT STRUCTURES DESIGNED BY A STRUCTURAL ENGINEER FOR THE LOADS ANTICIPATED AND SHALL NOT BE PLACED ON THE NEW GRATING.
- 2 CONTRACTOR SHALL DESIGN AND INSTALL STRUCTURAL SUPPORT FOR THE CONVEYOR DISCHARGE. STRUCTURAL CALCULATIONS SHALL BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF UTAH.



SECTION M-3

PRELIMINARY NOT FOR CONSTRUCTION

6-22-10